

Bulletin of the Academy of Sciences, USSR Division of Chemical Science 1966 vol.15 N10, pages 1674-1678

Dipole moments of adducts of fumaronitrile and maleonitrile with cyclic dienes

Arbuzov B., Vereshchagin A.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

1. Some adducts of fumaronitrile and maleonitrile with cyclic dienes were synthesized. 2. The dipole moments of 14 compounds were measured; the endo-structure was determined on the basis of them for the adduct of cyclopentadiene, furan, hexachlorocyclopentadiene, and tetracyclone with maleonitrile. 3. The dipole moments of the bonds in 1,2-disubstituted structures are strongly dependent upon the mutual orientation. © 1967 Consultants Bureau.

<http://dx.doi.org/10.1007/BF00848701>
